Claims

1. A system for cooling to a low temperature at least one piece of equipment, particularly a piece of motor vehicle equipment, comprising a circulation loop (4) for heat-transfer fluid on which loop are mounted a low-temperature heat exchanger (60) and at least an equipment exchanger (102) comprising a heat-exchange surface, characterized in that the heat-exchange surface of the equipment exchanger (102) is split between at least a first and a second heat-exchange section (104, 106), the first heat-exchange section (102) having a first flow rate (Q_1) of heat-transfer fluid passing through it, the second heat-exchange section (106) having a second flow rate (Q_2) of heat-transfer fluid passing through it, the first flow rate (Q_1) being greater than the second flow rate (Q_2).

2. The cooling system as claimed in claim 1, characterized in that the low-temperature heat exchanger (60) comprises at least a first and a second outlet nozzle (78, 132, 141, 143) for the heat-transfer fluid, the first nozzle being connected to the first heat-exchange section (104), the second nozzle being connected to the second heat-exchange section (106), the heat-transfer fluid leaving the low-temperature exchanger (60) via the first outlet nozzle being at a temperature higher than that of the heat-transfer fluid leaving the low-temperature heat exchanger via the second outlet nozzle.

3. The cooling system as claimed in claim 2, characterized in that the low-temperature heat exchanger (60) comprises a multitude of fluid circulation passes (86, 88, 90) through which the heat-transfer fluid travels in succession, the first nozzle being located upstream of the second nozzle with

respect to the circulation of the heat-transfer fluid through the passes (86, 88, 90).

4. The cooling system as claimed in one of claims 1 to 3, characterized in that the low-temperature circulation loop (4) comprises a circulation pump (58).

5. The cooling system as claimed in one of claims 1 to 3, characterized in that the low-temperature circulation loop (4) is mounted as a bypass between the inlet and outlet of the cooling circuit (2) of the motor vehicle combustion engine.

6. The cooling system as claimed in one of claims 1 to 5, characterized in that the equipment exchanger (102) is an intercooler.

7. The cooling system as claimed in one of claims 1 to 5, characterized in that the equipment exchanger (102) is a condenser forming part of the motor vehicle cabin air-conditioning circuit.

8. The cooling system as claimed in claim 7, characterized in that the condenser comprises a coolant-fluid condensation section (104) and a coolant-fluid supercooling section (106) and a reservoir (154) for filtering and dehydrating the coolant fluid, the condensation section constituting the first heat-exchange section (104) of the equipment exchanger, the supercooling section constituting the second heat-exchange section (106) of the equipment exchanger.

9. The cooling system as claimed in claim 8, characterized in that the reservoir (154) is inserted between the first heat-exchange section (104) and the second heat-exchange section (106).

10. The cooling system as claimed in claim 8, characterized in that the reservoir (154) is situated after the second heat-exchange section (106).